



FIGURE 1A

0		00)]	80		40	
CACTGTGCGTATTGTGATGGCGCCTACGACCAGATCGGCTTCCCCAACCTCGAGCTCCAA 1++++++60 GTGACACGCATAACACTACCGCGGATGCTGGTCTAGCCGAAGGGGTTGGAGCTCGAGGTT	H C A Y C D G A Y D Q I G F P N L E L Q	GICCACAACTCCTGGCTCTTCTTCCCTTGGCACCGCTTCTACCTCTACTTCCACGAGAGG	CAGGTGTTGAGGACCGAGAAGGGAACCGTGGCGAAGATGAAGGTGCTCTCC V H N S W L F F P W H R F Y L Y F H E R	ATCCTCGGAAAGCTCATAGGCGACGACACTTTCGCCCTCCCT	TAGGAGCCTTTCGAGTATCCGCTGCTGTGAAAGCGGGAGGGA	CCCGGCGCGTTGAAGCTGCCGTCGATCTACGCCGACCCTTCGTCCTCGCTCTATGACAG	GGGCCGCCGTACTTCGACGGCAGCTAGATGCGGCTGGGAAGCAGGAGCGAGATACTGTTC P G G M K L P S I Y A D P S S L Y D K

TTTCGCGACGCCAAGCACCAGCCGCCAGTCCTCGACCTCGACTACAACGGAACCGAC

AAAGCGCTGCGGTTCGTCGCGGTCAGGAGCAGCTGGAGCTGATGTTGCCTTGGCTG

FIGURE 1B

LT.	PSFTIDON LKIMYROV ATCTCCAACGCCAAGACGCCGTTGCTCTTAGGCTCGGCTTACCGTGCCGGCGACAAC	361+++420 TAGAGGTTGCCGTTCTGCGGCAACGAGAATCCGAGCCGAATGGCACGGCCGCTGTTG I S N G K T P L L F L G S A Y R A G D N	CCAAACCCCGGCGCGCGCTCGCTCGAGACATACCACGGCCCCGGCCCCGTCCACGGGTGGACT	421	GGCGACAGAAGCCAACCCAATCTCGAGGACATGGGCAACTTCTACTCCGCGGGGCGCGCGAC		CCTATCTTCGCCCACCATTCAAATGTCGATCGCATGTGG	AAGAAGCGGGTGGTAAGTTTACAGCTAGCGTACACC
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FIGURE 2A

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TAC	ATG	×
ATC	TAG	Н
TCG	AGC	ß
SSS	299	Д
CTG	GAC	н
AAG	TTC	X
ATG	TAC	Σ
299	500	ტ
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GAC	CTG	Ω
TGG	ACC	M
AAT	TTA	z
TGG	ACC	ß
TTT	AAA	ĮΉ
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TTGCCGTTTTTGGAATTGGGACGCCCCGGCGCGTGAAGCTGCCGTCGATCTACGCCGAC	AACGGCAAAACCTTAACCCTGCGGGCCGCCGTACTTCGACGGCAGCTAGATGCGGCTG	니

CCTTCGTCCTCGCTCTATGACAAGTTTCGCGACGCCAAGCACCAGCCGCCGGTCCTCGTC GGAAGCAGGAGCGAGATACTGTTCAAAGCGCTGCGGTTCGTGGTCGGCGGCCAGGAGCAG

GAGTICTAGTACATGGCCGTCCACTAGAGGTTGCCGTTCTGCGGCAACGAGAAGAATCCG CTCAAGATCATGTACCGGCAGGTGATCTCCAACGGCAAGACGCCGTTGCTCTTTAGGC KIMYRQVISNGKTPLLFL

FIGURE 2B

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TTGAAGATGAGGCGCCCCGCGCTGGGATAGAAGAAGCGGGTGGTAAGTTTACAGCTATCG
                                                                                                                                                                                AACTICTACTCCGCGGGGGGGCGCCTATCTTCTTCGCCCACCATTCAAATGTCGATAGC
CACGGCCCCGTCCACGGGTGGACTGGCGACAGAAGCCAAACCCAATCTCGAGGACATGGGC
                                                                     GTGCCGGGGCAGGTGCCCACCTGACCGCTGTCTTCGGTTGGGGTTAGAGCTCCTGTACCCCG
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                                                                                                                                                                                                                                                                                                                                                                                                                                     TACACC
                                                                                                                                                                                                                                                                                                                                                                ATGTGG
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FIGURE 3A

FIGURE 3B

ĒΧ
AGCTCAGTGGAGTTCCTGACGACGTCGCCTCACCGAAGCAATGCTAATGGTTCTGCA R V T L K D C L Q P E W L R Y D Y Q D V CGAGATCCCGTGGCTGAAGACCCGGCCGACTCCCAAAGCCTTGAAGGCGCAGAAAACCGC 361+++420 GCTCTAGGGCACCGACTTCTGGGCCGGCTGAGGGTTTCGGAACTTCCGCGTCTTTTGGCG E I P W L K T R P T P K A L K A Q K T A AGCGAAAACACTGAAAGCTACAGCAGAGACGCCGTTCCCGGTGACGCCGGT
CCCGTGGCTGAAGACCCGGCCGACTCCCAAAGCCTTGAAGGCGCAGAAAACCGC+++++42 GGGCACCGACTTCTGGCCGGCTGAGGGTTTCGGAACTTCCGCGTCTTTTGGCG P W L K T R P T P K A L K A Q K T A AACACTGAAAGCTACAGAGACGCCGTTCCCGGTGACGCTGCAATCCGCGGT
GGGCACCGACTTCTGGGCCTGAGGGTTTCGGAACTTCCGCGTCTTTTGGCG PWLKTPBTPRACGCGGCGCGGCGGGGGGGGGGGGGGGGGGGGGGGGGG
A.
- 55 ¦
GAGCACGACGGTGAGGAGCCCCAAGGTATCGAGGAGCGGCCAAGGAAGG

FIGURE 3C

CTTCGTGAACGCCACCGAGGGTGAGGGCATCACGCCGGGCGCCAGCGAGTTCGCGGGCAG
BAGCACTTGCGGTGGCTCCCACTCCCGTAGTGCGGCCCGCGGTCGC F V N A T E G E G I T P G A S
CTTCGTCAACGTCCCGCACAAGCACAAGCACAGAAGAAGAAGAAGAAGAAGA
GTTGCAGGGCGTGTTCGTGTGTCTCTGTGTCTCTCTTCTTCGTGTTCTTC
GCTCTGCCTGGGGATCACTGACCTGCTCGAGGACATCGGGGGCGGAGGACGACGACGACAGCGT
CGAGACGCACCCTAGTGACTGGACGAGCTCCTGTAGCCCCCCCTCTTGCTGCTGCTGCTGCACACACTCTGTAGCCCCCTCTTGCTGCTGTCGCAACTCTGTAGCCCCTCTTGCTGCTGTTGCCAACTAGCCCCTCTTGCTTG
GCTCGTCACCATCGTCCCGAAAGCCGGAAAGGGCAAGGTGTCGGTCG
CGAGCAGTGGTAGCAGGGCTTTCGGCCTTCCACAGCCAGC
CGATTTCCCAAATTGAAGTAATACTATATTTTCTACTACCTATCAAGGAAAATAAAAGC
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CAACGAGAAGAATCCGAGCCGAATGGCACGGCCACTGGTCGGATTGGGGCCGCGCCCTAG CATCGAGAACATGCCGCACAACAACGTGCACTTGTGGACCGGCGACCGCACCCAGCCCAA GAAGCTCTTGTACCCGTGGAAGATGCGCCGCCGCGCGCTGGGGTAGAAGAAGCGGGTGGT GTTGCTCTTCTTAGGCTCGGCTTACCGTGCCGGTGACCAGCCTAACCCCGGCGGGGATC CGCCAACATCGACCGAATGTGGTACCTGTGGAAGAAGCTCAGCAGGAAGCACCAGGACTT GTAGCTCTTGTACGGCGTGTTGTTGCACGTGAACACCTGGCCGCTGGCGTGGGTCGGGTT **~** ഗ Ø A Y R F L G Σ GURE 4A

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GTTACTGAGCCTGACCGAGTTTCGAAGGAAGGAGAAGATGCTGCTCTTGCGGCTGAATCA CAATGACTCGGACTGGCTCCAAAGCTTCCTTCTTCTACGACGAGAACGCCGACTTAGT

GCGGTTGTAGCTGGCTTACACCATGGACACCTTCTTCGAGTCGTCCTTCGTGGTCCTGAA

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CCTCTATGAGTATCACCTCCCCTAGCTCAAGCTGGCGCTGATGAAGTAGTTCAAGCTGCA

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FIGURE 4B

TCGGGTCACGGTCAAGGACTGCTTGGAGACCGAGTGGCTGCGCTACACGTACCAAGACGT 301++++360 AGCCCAGTGCCAGTTCCTGACGAACCTCTGGCTCACCGACGCGATGTGCATGGTTCTGCA R V T V K D C L E T E W L R Y T Y Q D V	CAGCAGATCGCTGAAAGCCACCGCGGAGGTGCAGTTCCCTGTGACGCTGGAATCCCCGGT 421+++++480 GTCGTCTAGCGACTTTCGGTGGCGCCTCCACGTCAAGGGACACTGCGACCTTAGGGGCCA
	CAAAGTGACGGTGAAGAGGCCCCAAGGTGGGGAGGAGCGGCAAGGAGAAGAAGATGAGGA 481+++++-+-+540 GTTTCACTGCCACTTCTCCGGGTTCCACCCCTCCTCGCCGTTCCTTCTACTCCT K V T V K R P K V G R S G K E K E D E E

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FIGURE 4C CITCGIGAACGCGACGGCGACGCCATCACGGCCGGGGCCAGTGAGTTCGCCGGCAG 601+++-660 GAAGCACTTGCGCTGCCTGCCGTAGTGCCGGCCCGGTCACTCAAGCGGCCGTC F V N A T E G D G I T A G A S E F A G S	CTTCGTGAACGTCCCGCACAAGCACACCGCAAGGATGAGAATAAGCTGAAGACGAG 661+++720 GAAGCACTTGCAGGGCGTGTTCGTGGCGTTCCTACTCTTATTCGACTTCTGCTC F V N V P H K H K H R K D E N K L K T R	GCTGTGTCTGGGAATCACCGACCTGCTCGAGGACATCGGCGGGGGGGCGACGACGACGTGT721+++780 721++++780 CGACACAGACCCTTAGTGGCTGGACGAGCTCCTGTAGCCGCGCCTCCTGCTGCTGTCGCA L C L G I T D L L E D I G A E D D S V	GCTCGTCACCATCGTGCCGAAGGCAAGGAAAGGTGTCCGTCGGCGGTCTTCGGAT 781+++++840 cGAGCAGTGGTAGCACGCTTCCGTCCGTTTCCTTTCCACAGGCAGCCGCCAGAAGCCTA L V T I V P K A G K G K V S V G G L R I	TGACTTTTCCAAGTGAGAATTAAAGAATTCACGTGCCGTGCCTGCTTTCAATGTACGA 841+++++++	ATAAAATAAGAGTGCATCATCACCGACCATGGTTCTACTTTAAAAAAAA

GTGGCGCCAAGACATTAGTACCTGGAACCAGTAAAACCAGTTCTGCACTTTCCTTGACTG TGTCCACACTCTTTTTCGGTAAGCCATATTGTACGGAAGTTGGACCCAAACCAGGGCAG CACATGITIGATCAACCAAACGIGTACCCTGATCTTTACGATCCAAGACGTAACCAAGAA CACCGCGGTTCTGTAATCATGGACCTTGGTCATTTTGGTCAAGACGTGAAAGGAACTGAC TTGCAAATGATGAGCAATAACCTTACTCTAATGTATCGTCAAATGATTACCAATTCACCA GATCCGACGTTTGCGTTGCCATATTGGAACTGGGATCATCCAAAGGGCCATGCGTTTGCCA AACGTTTACTACTCGTTATTGGAATGAGATTACATAGCAGTTTACTAATGGTTAAGTGGT CTAGGCTGCAAACGCAACGGTATAACCTTGACCCTAGTAGGTTTCCCGGTACGCAAACGGT GTGTACAAACTAGTTGGTTTGCACATGGGACTAGAAATGCTAGGTTCTGCATTGGTTCTT SNNLTLMYRQMIT Σ

FIGURE 5A

ACAGGTGTTGAGAAAAAGCCATTCGGTATAACATGCCTTCAACCTGGGTTTGGTCCCGTC

IGURE 5B

L G G GCTCTTTAATTAATGATCCTACTTTTGGTTTGCCATATTGGAACTGGGACCATCCAAAGG TCTCGTGGCTTTTTTCCCTTTTCATAGATGGTACTTGTACTTCTATGAAAGAATCTTGG CGAGAAATTAATTACTAGGATGAAACCAAACGGTATAACCTTGACCCTGGTAGGTTTCC GCATGCGTATACCTCCCATGTTCGATCGTGAAGGGTCTTCCCTTTACGACGAAAAACGTA CGTACGCATATGGAGGGTACAAGCTAGCACTTCCCAGAAGGGAAATGCTGCTTTTTGCAT ACCAAAGTCACCGTAATGGAACCATAATTGATCTTGGTCATTTCGGTCAAGAAGTCCAAA TGGTTTCAGTGGCATTACCTTGGTATTAACTAGAACCAGTAAAGCCAGTTCTTCAGGTTT AGAGCACCGAAAAAAAGGGAAAAGTATCTACCATGAACATGAAGATACTTTCTTAGAACC ACGTGACACGCATAACGTTGCCACGAATGTTTTAACCACCGTTTCTCAATGTTCAGGTÄA TGCACTGTGCGTATTGCAACGGTGCTTACAAATTGGTGGCAAAGAGTTACAAGTCCATT 召 ſщ ഗ Υ Τ ഗ ഗ X G L Ċ 3 α Ω н لتا ധ Д FIGURE 6A z

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FIGURE 6B

CAACTCAACTGCAGCAGATG	CAACTCAACTGCAGCAGATGACTAATAACTTAACTATAATGTATCGTCAAATGATAACTA
GTTGAGTTGACGTCGTCTACT T Q L Q Q M	GTTGAGTTGACGTCGTCTACTGATTGATTGATATTACATAGCAGTTTACTATTGAT T Q L Q Q M T N N L T I M Y R Q M I T N
ATGCTCCTTGCCCCTTGCTCT	ATGCTCCTTGCCCCTTGCTCTTTGGTCAGCCTTACCCTCTAGGAACTGATCCCAGTC
	TACGAGGAACGGGAACGAGAACCAGTCGGAATGGGAGATCCTTGACTAGGGTCAG
ÄAI	CAGGGATGGGCACTATTGAAAACATCCCTCATACTCCTGTCCACATTTGGGTTGGTAGTA
471	GTCCCTACCCGTGATAACTTTTGTAGGGGGTATGAGGACAGGTGTAAACCCCAACCATCAT G M G T I E N I P H T P V H I W V G S R
GGCTTGATGAGAATAATACGA	GGCTTGATGAGAATAATACGAAACACGGTGAGGATATGGGTAATTTTTACTCGGCCGGTT
CCGAACTACTCTTATTATGCT L D E N N T	CCGAACTACTCTTATGCTTTGTGCCACTCCTATACCCATTAAAAATGAGCCGGCCAA L D E N N T K H G E D M G N F Y S A G L
TAGACCCGCTTTTCTATTCCC	TAGACCCGCTTTTCTATTCCCATCACGCCAATGTGGACCGGATGTGGTCCGAGTGGAAAG
99	ATCTGGGCGAAAAGATAAGGGTAGTGCGGTTACACCTGGCCTACACCAGGCTCACCTTTC

FIGURE 6C

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GGAATCCTCCCTTTCTTCCTAGAGTGCGTGTTTCTAACCAACTTGAGGCTCAAGAAA
CCTTAGGAGGGAAAAGAAGGGATCTCACGCACAAAGATTGGTTGAACTCCGAGTTCTTTT
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FIGURE 7A

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TIC	1	AAC	SWLFFPFHRWYLYFYERILG
AIC	1	TAG	Н
AGA	1	TCT	ĸ
GAG	+ + + + + + + + + + + + + + + + + + + +	CIC	Ē
TAC	i	ATG	\succ
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TAC	+	ATG	×
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E GG	 	ACC	M
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CCA	18	GGTJ	Ы
CAT		GTA(H
GAC	+	CIG	Ω
TGG.	İ	ACC	M
AAC	1	TTG	Z
Jeg		ACC	ß
TAT	1	ATA	×
CCA	1	GGT	Д
CIG	1 +	GAC	Н
GCT	 	CGA	Ø
$_{ m LLL}$	İ	AAA	Ĺτι
ACT	İ	TGA	L
CCA	-+	GGT	Ы
GAT	 	CTA	Ω
GAT	1	CTA	Ω
ATC	+	TAG	Н
CIC		GAG	H
GCTCCCTCATCGATGATCCAACTTTTGCTCTGCCATATTGGAACTGGGACCATCCAAGCG		CGAGGGAGTAGCTACTAGGTTGAAAACGAGACGGTATAACCTTGACCTTGGTAGGTTCGC	SLIDDPTFALPYWWDHPSG
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GCATGCGTTTGCCTGCTATGTTCGATGTCGAAGGTTCTTCCCTCTACGATGCAAGACGTA CGTACGCAAACGGACGATACAAGCTACAGCTTCCAAGAAGGGAGATGCTACGTTCTGCAT R L P A M F D V E G S S L Y D A

ATCCACATGTCCGTAATGGAACCATAATCGATCTTGGTTTTTTCGGTGATGAAGTCAAAA TAGGTGTACAGGCATTACCTTGGTATTAGCTAGAACCAAAAAAGCCACTACTTCAGTTTT

FIGUR CTAATGA	IGURE 7B CTAATGAAATACAGATGATAACTAACTTAATTCTAATGTATCGTCAAATGATAACTA
GAT	CTTTATGTCTATTGATTGAATTAAGATTACATAGCAGTTTA E I Q M I T N N L I L M Y R Q M
ATC	ATGCTCCATGCCCGCTGTTGTTCTTCGGAGAGCCTTACAGATTCGGATCTAAACCCAATC
TAC	TACGAGGTACGGGCGACAAGAAGCCTCTCGGAATGTCTAAGCCTAGATTTGGGTTAG A P C P L L F F G E P Y R F G S K P N P
CGC	CGGGGCAGGGAACCATTGAAAACATTCCTCATACTCCGGTTCACATTTGGACTGGTACTG
)) T7#	GCCCCGTCCCTTGGTAACTATGAGGCCCAAGTGTAAACCTGACCATGAC GCCCCGTCCCTTGGTAAGGAGTATGAGGCCAAGTGTAAACCTGACCATGAC
TGCGGT	ا ب
ACG	ACGCCACATGCCTAAACACACGGTAGTATGCCACTCCTATACCCATTAAAGA R C T D L G N C V P S Y G E D M G N F Y
ACT	ACTCAGCTGGTTTAGACCCAGTTTTTACAGCCACCACGCCATGTGGACCGCATGTGGA
TGA TGA	TGAGTCGACCAAATCTGGGTCAAAAATGTCGGTGGTGCGGTTACACCTGGCGTACACCT

FIGURE 7C

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ATGAATGGAAAGCACTAGGAGGGAAAAGAAGGGGATCTCACAGACAATGATTGGTTAAACT
                                             TACTTACCTTTCGTGATCCTCCCTTTTCTTCCTTAGAGTGTCTGTTACTAACCAATTTGA
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GCATACTCGGGAAACTTATCGGCGACGACGTTCGCGCTGCCTTTCTGGAACTGGGACG ACGTAACACGCATGACGCTGCCGCGCATACTGGTTTAGCCGAAGGGGCTAGAGCTCTAGG TGCATTGTGCGTACTGCGACGGCGCGTATGACCAAATCGGCTTCCCCGATCTCGAGATCC AGATCCACAACTCGTGGCTCTTCTTTCCTTGGCACCGGTTCTACCTCTACTTCAACGAGC TCTAGGTGTTGAGCACCGAGAAGAAAGGAACCGTGGCCAAGATGGAGATGAAGTTGCTCG CGTATGAGCCCTTTGAATAGCCGCTGCTGTGCAAGCGCGACGGAAAGACCTTGACCCTGC CGCCGGGGGGCATGCAGTTCCCGTCTACTACACGGACCCTTCATCTCGCTATATGACA TCGACGCACTACGCTTCGTGGTCGGCGGCTGAACTAACTGGAGCTGATGTTACCGTGGC SCGGCCCCCCGTACGTCAAGGGCAGATAGATGTGCCTGGGAAGTAGGAGCGATATACTGT 凶 H ы ᄺ ഗ Ŀı ഗ

FIGURE 8A

FIGURE 8E

	ATCCTACCTTCTCCCCTGAAGAACAGATTAACCACACACCTCGCCGTCATGTACCGACAGG	
30	301+++++360 TAGGATGGAAGAGGGGACTTCTTGTCTAATTGGTGTTGGAGCGGCAGTACATGGCTGTCC P T F S P E E Q I N H N L A V M Y R Q V	
36	TGATATCCAGTGGAAAGACACCAGAGCTGTTTATGGGCTCAGCGTACCGCGCCGGTGACC	
	ACTATAGGTCACCTTTCTGTGTCTCGACAAATACCCGAGTCGCATGGCGCGGCCACTGG I S S G K T P E L F M G S A Y R A G D Q	
<i>C C</i>	AGCCTGACCCGGCGCAGGTTCTGTAGAGCAGAAGCCGCACGGCCCGGTGCATGTGTGA	
7	ĔΩ	
•	CAGGTGATCGCAACCAGCCCAATCGCGAAGACATGGGCACGCTCTACTCGGCGCGCGTGGG	
4. X	481	
i	ACCCCGTTTTTTCGCACACCACGGCAACATCGACCGCATGTGGTACGTGTGGGAGGAACC	
54	16GGGCAAAAAAGCGTGTGGTGCCGTTGTAGCTGGCGTACACCATGCACCTCCTTGG TGGGGCAAAAAAAAGCGTGTGTGCTGTAGCTGGCGTACACCATGCACCTCCTTGG	

FIGURE 8C

```
TIGGCGGCAAGCACCGCAACTICACCGACCCCGACTGGCTCAACGCGTCCTTCCTGTTCT
                               661-----+ 670
TGCTGCTTTT
D E
                                                                               ACGACGAAAA
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FIGURE 9A

, + +	267 366	TCI AGP L	ACC	3AC <i>3</i> + ;TG ₃	AAG TTC	CTG GAC	CGC.	AAT TTA N	929 CGC	AAG : TTC K	CAC + GTG	CAG GTC Q	522 666	CCG.	ACT IGA T	TTG AAC L	::T'T'GGTC +120 saaaccag
TCGTC	TCCC +- AGGG(S	TCCCCGC + AGGGGCG S P	TCCCCGCTCT + AGGGGCGAGA S P L	TCCCCGCTCTACC + AGGGCGAGATGC S P L Y	TCCCCGCTCTACGACI ++ AGGGCCAGATGCTG1 S P L Y D	TCCCCGCTCTACGACAAG +AGGGGCGAGATGCTGTTC S P L Y D K	TCCCCGCTCTACGACAAGCTG +	TCCCCGCTCTACGACAAGCTGCGC ++- AGGGGCGAGATGCTGTTCGACGCG S P L Y D K L R	TCCCCGCTCTACGACAAGCTGCGCAAT+++ AGGGGCGAGATGCTGTTCGACGCGTTA S P I Y D K L R N	TCCCCGCTCTACGACAAGCTGCGCAATGCG +++	TCCCCGCTCTACGACAAGCTGCGCAATGCGAAG ++++	TCCCCGCTCTACGACAAGCTGCGCAATGCGAAGCAC ++++++	TCCCCGCTCTACGACAGCTGCGCAATGCGAAGCACCAGG +++++	TCCCCGCTCTACGACAAGCTGCGCAATGCGAAGCACCAGCCGGCGGCCGGC	TCCCCGCTCTACGACAAGCTGCGAATGCGAAGCACCCAGCCGCCG++++++++	TCCCCGCTCTACGACAAGCTGCGAATGCGAAGCACCAGCCGCCGAAA +++++++ AGGGGCGAGATGCTGTTCGACGCGTTACGCTTCGTGGTCGGCGGCTG S P L Y D K L R N A K H Q P P T	TCCCCGCTCTACGACAAGCTGCGAATGCGAAGCACCAGCCGCCGAAA +++++++ AGGGGCGAGATGCTGTTCGACGCGTTACGCTTCGTGGTCGGCGGCTG S P L Y D K L R N A K H Q P P T
) -+- 166(CCCGC	CCCGCTCT -+ GGGCGAGA	CCCGCTCTACC -+ GGGCGAGATGC	CCCGCTCTACGAC! -++ GGGCGAGATGCTG1	CCCGCTCTACGACAAG -++ GGGCGAGATGCTGTTC P L Y D K	CCCGCTCTACGACAAGCTG -++	CCCGCTCTACGACAAGCTGCGC -++- GGGCGAGATGCTGTTCGACGCG	CCCGCTCTACGACAAGCTGCGCAAT -+++	CCCGCTCTACGACAAGCTGCGCAATGCG -++++	CCCGCTCTACGACAAGCTGCGCAATGCGAAG -++++	CCCGCTCTACGACAAGCTGCGCAATGCGAAGCAC -++++++ GGGCGAGATGCTGTTCGACGCGTTACGCTTCGTG	CCCGCTCTACGACAAGCTGCGCAATGCGAAGCACCAG -++++	CCCGCTCTACGACAAGCTGCGCAATGCGAAGCACCAGCCG -++++	CCCGCTCTACGACAAGCTGCGCAATGCGAAGCACCCAGCCGCCG++++++++ GGGCGAGATGCTGTTCGACGCGTTACGCTTCGTGGTCGGCGGCC; P I Y D K L R N A K H Q P P	CCCGCTCTACGACAAGCTGCGAATGCGAAGCACCAGCCGCCGACT -++++++	CCCGCTCTACGACAAGCTGCGCAATGCGAAGCACCAGCCGCCGCCGACTTTG -++++++

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AAC	+	TIG	Z
CAC	i	GTG	Ħ
225	.	990	Ø
ATC	+	TAG	Н
CAG	İ	GIC	C
CAG	i'	GIC	С
GAG	<u> </u> +	CIC	[±]
CCT	i !	GGA	Д
ACC	İ	TGG	E
TIC	1	AAG	ſ±
ACC	+	TGG	E-
922	1	299	Д
GAC	İ	CTG	
ACC	+	TGG	E
GGC	i I	900	ני
AAC	l l	TTG	Z
TAC	+	ATG	>
GAC	 	CIG	
GACCTCGACTACAACGGCACCGACCCGACCTTCACCCCTGAGCAGCAGATCGCCCACAAC	 	CTGGAGCTGATGTTGCCGTGGCTGGCTGGAAGTGGGGACTCGTCGTCTAGCGGGTGTTG	N H V I O O E d L L L d C L S N A C T C
GAC	1	CTG	
	121+++		

	0		
SCG	+++300	3GC	Д
3TG	!!!	CACC	>
CTC	 	3AG	П
3AG(+	CICC	臼
CTA(.]	3AT(Ä
GTACCGCGCGGCGACGCCCAGACCCGGGCGCAGGCACTCTAGAGCTCGTGCCG	1.	CATGGCGCCCCCCTGCGCGGTCTGGGCCCGCGTCCGTGAGATCTCGAGCACGGC	YRAGDAPDPGAGTLELVP
GGC.		CCG	Ŋ
GCA	1	CGT	Ø
GGC	.	SCG	ഗ
CCG	i	GGC	ф
GAC(+	CTG	Ω
CCA	į	GGT	<u>Д</u>
GCG	į	CGC	Ø
3AC	+-	CTG	Ω
360		CCG	ഗ
300	i i	CGC	A
SGC	1	3CG	Δ.
TAC	T	ATG(X
3CG			Ø
95666		SCCG	A
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FIGURE 9B

CTGACGAACTCGCGGCTGCGCGACGCCATGTGCATGGTCCTGCAGCTGTAGGGCACCTAG

FIGURE 9C

GCCGTGAAGTTCGACGTGTATATAAACGCGCCGGACAACGAAGGGGTGGGGCCGGAGGCG 781+++840 CGGCACTTCAAGCTGCACATATATTTGCGCGCCTGTTGCTTCCCCACCCCGGCCTCGC	A V K F D V Y I N A P D N E G V G P E A AGCGAGTTCGCAGGAGCTTCGTCCAGGTGCCGCACAAGCAAG
TCACGCTTCGGCTGCGCCTTCTTTTGTGCCCCCGCGAAGGTGCTGTCTCCGA S A K P T P K K T P G A P S T T E A ATATTTCCGGTGGTGATAAGCCGGTGAGCTCTACGGTGGCGAGGCCGAAGACGGG 661++720 TATAAAGGCCACCACCGACTTTCGGCCACTCGAGATGCCACCGCTTCTGCCC I F P V L D K P V S T V A R P K T G AGGAGTACTGGGGAGGGGGGTTGGTGGTGGTGGTGGAGGCTGGACAGGACGTG 721+780 TCCTCATGACCCCTCCTCCACAACCACCACCTCCTTAGCTCGACCTGTTCCTGCAC	TCACGCTTCGGCTGCGCTTCTTTTGTGGCCCCCGCGACGCGAAGGTGCTGTCTCGA S A K P T P K K T P G G A A P S T T E A ATATTTCCGGTGGTGGTGATAAGCCGGTGACCTCTACGGTGCCGAGGCCGAAGACGGGG 661+720 TATAAAGGCCACCACGACCTATTCGCCACTCGAGATCGACGCCGCTCCGCTTCTGCCC I F P V V L D K P V S S T V A R P K T G AGGAGTACTGGGAGGAGGAGGTGTTGGTGGTGGAGGAGCTGGACAAGGACGTG 721+780 TCCTCATGACCTCCTCCTCCACAACCACCCCCCTTAGCTGACCTGTTCCTGCAC R S T G E E V L V V E G I E L D K D V GCCGTGAAGTTCGACGTGTATATAAACGCGCCGGACGCGGGGGCGGGGCGGAGCCG 781
ATATTTCCGGTGCTGCATAAGCCGGTGAGCTCTACGGTGCCGAGGCCGAAGACGGGG 661+++++720 TATAAAGGCCACCACTATTCGGCCACTCGAGATGCCACCGCTCCGGCTTCTGCCCC I F V V L D K P V S S T V A R P K T G AGGAGTACTGGGGAGGAGGAGGTGTTGGTGGTGGAGGGAATCGAGCTGGACAAGGACGTG 721++780 TCCTCATGACCCCTCCTCCACAACCACCACCTCCCTTAGCTCGACCTGCAC TCCTCATGACCCCTCCTCCACAACCACCACCACCTCCCTTAGCTCGACCTGTTCCTGCAC	ATATITCCGGTGGTGATAAGCCGGTGAGCTCTACGGTGGCGAGGCCGAAGACGGGG 661+1-20 TATAAAGGCCACCACCACTATTCGGCCACTCGAGATGCCACCGCTTCTGCCC I F P V L D K P V S T V A R P K T G AGGAGTACTGGGGAGGAGGTGTTGGTGGTGGAGGGAATCGACTGGACAAGGACGTG 721+1-80 TCCTCATGACCCTCCTCCTCCACACCACCACCTCCCTTAGCTCGACCTGCAC R S T G E E V L V V E G I E L D K D V GCCGTGAAGTTCGACGTGTATATAAACGCGCCGGACAGGGGGGGG
AGGAGTACTGGGGAGGAGGTGTTGGTGGTGGAGGGAATCGAGCTGGACAAGGACGTG 721+++++780 TCCTCATGACCCTCCTCCACAACCACCACCTCCCTTAGCTCGACCTGTTCCTGCAC	AGGAGTACTGGGGAGGAGGTGTTGGTGGTGGAGGGAATCGAGCTGGACAAGGACGTG 721+++++780 TCCTCATGACCCCTCCTCCTCCACACCACCACCTCCTTAGCTCGACCTGTTCCTGCAC R S T G E E V L V V E G I E L D K D V GCCGTGAAGTTCGACGTGTATATAAACGCGCCGGACAAGGGGTGGGGCCGGAGGCG 781+-840 CGGCACTTCAAGCTGCACATATATTTGCGCGGCCTGTTGCTTCCCCACCCCGGCCTCCGC
	GCCGTGAAGTTCGACGTGTATATAAACGCGCCGGACAACGAAGGGGTGGGGCCGGAGGCG 781+++840 CGGCACTTCAAGCTGCACATATATTTGCGCGCCTGTTGCTTCCCCACCCCGGCCTCCGC
A V K F D V Y I N A P D N E G V G P E A AGCGAGTTCGCAGGAGCTTCGTCCAGGTGCCGCACAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAG	

TICCAACCACCCGATICCTAGCTAAAGAGGTICACTAGICGICGTITAATIGATAIGTAC

FIGURE 9D

TITCATITITITAACGIAAAIGGAIGGAIAICTICICITAIITACGCAIACAIIAGACG AAAGTAAAAAAATTGCATTTACCTACCTATAGAAGAGAATAAATGCGTATGTAATCTGC Ø

CCCATTTGTCACTTTTAATTTCTCGAGCGTGTTCTGAATGAGAGTTGCATGCGCGC

FIGURE 9E

1260		1319
AGCCATAATGCCTGGTATAGTGTAGTTTTAGGCGTGGATACGTATAACGTACGT	S H N A W Y S V V V * A W I R I T Y V C ATGTATAAGGAATAATGATGAGTTTACTATGCAAAAAAAA	1261+
 1		

---+300

GCGTAGCGGGCGCTGGATGAGGACCCGGGAGCCGCCGGAATGCCACGGTGGTGACC

FIGURE 10A

CGCATCGCCCGCCGACCTACTCCTGGGCCCTCGGCGGCTTTACGGTGCCACTGG
GCAGTATTCTAGAGTACGTTTAGATTCCTCGTTGTTCTGGTTCGGACGCCCG V I R S H A N L R S N K R M P T S L R A
CGTCATAAGATCTCATGCAAATCTAAGGAGCAACAAGAGAATGCCGACAAGAGCCTGCGGGC
AAGAGAGTTTTCGAAGTGGTGGTGGTGGAGGGGGGCACATCCCCAGGGTTTGGTGGG S L T K S F T T T F L S P V G V P N H P
TICTCTCACCAAAAGCTTCACCACCACCTTCCTCTCCCCTGTAGGGGGTCCCAAACCACCCC
ATTTGATCGAAGGGTTGGTTATTGTGGAGGTGAGGGGGGGG
TAAACTAGCTTCCCAACCAATAACACCTCCACTCTCCCGCTCCCTCTTGCATGCTCC
GCCATAGCTATTCGAACTAGGTCACGACCAAATCCACATAAGTGATACCGGTGGGAGAG G I D K L D P V P G L G V F T M A T L S
CGGTATCGATAAGCTTGATCCAGTGCCTGGTTTAGGTGTATTCACTATGGCCACCCTCTC

FIGURE 10B

GCTCGGCCTCAACCGTCGAGCGGCCGCCCCCTATCCTGGCTCCCGACCTCTCAACTTG 301++++360 cgagccggagttggcagctcgccggcggggataggaccgagggctggagagttgaac L G L N R R A A A P I L A P D L S T C	\mathcal{G} ! \mathcal{G}	ATCCACCATCATCGACTTCAAGCTCCCCCGCGATCTGCTCCGCTTCGCGTCCGGCCTGC 421++++++480 TAGGTGGTAGTAGCTGAAGTTCGAGGGGGGCGCTAGACGAGGCGAAGCGCAGGCCGACG S T I D F K L P P R S A P L R V R P A	GGCCCACTTGGTTGACGCCGACTACCTGGCCAAGTATAAGAAGGCGGTCGAGCTCATGAG 481+++++++540 CCGGGTGAACCAACTGCGGCTGATGGACCGGTTCATATTCTTCCGCCAGCTCGAGTACTC A H L V D A D Y L A K Y K K A V E L M R	GGCCCTGCCGGCCGACCCCGCGCAACTTCGTACAGCAAAGGTGCACTGTGCGTA 541+++++600 CCGGGACGGCCGGCTGGGCGCGTTGAAGCATGTCGTTCGCTTTCACGTGACACGCAT
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FIGURE 10C

103	()	
0	AACGCTGCCGCGCATACTGGTTTAGCCGAAGGGGCTAGAGCTCTAGGTCTAGGTGTTTGAG C D G A Y D Q I G F P D L E I Q I H N S	
.99	GTGGCTCTTCTTTCCTTGGCACCGGTTCTACCTCTACTCCAACGAGCGCATACTCGGGAA 661+++720 CACCGAGAAGAAAGGAACCGTGGCCAAGATGGAGATGAGGTTGCTCGCGTATGAGCCTT W L F F W H R F Y L Y S N E R I L G K	
72.	ACTTATCGGCGACGACGTTCGCGCTGCCTTTCTGGAACTGGGACGCGCGGGGGGCAT 721+++++780 TGAATAGCCGCTGCTGTGCAAGCGCGACGGAAAGACCTTGACCCTGCGCGGCCCCCCGTA L I G D D T F A L P F W N W D A P G G M	
787	GCAGTTCCCGTCTATCTACACAGACCCTTCATCCTCGCTATATGACAAGCTGCGTGATGC 781++++++++840 CGTCAAGGGCAGATGTCTGGGAAGTAGGAGCGATATACTGTTCGACGCACTACG Q F S I Y T D P S S L Y D K L R D A	
8 4	GAAGCACCAGCCGCCGACTTTGATTGACCTCGACTACAATGGCACCGATCCTACCTTCTC 841+++000 CTTCGTGGTCGGCGCTGAACTAACTGGAGCTGATGTTACCGTGGCTAGGATGGAAGAG	

FIGURE 10D

06	GAAGAACAGATTAACCACAACCTCGCCGTCATGTACCGACAGGTGATATCCAGTG +++++
	PEEQINH NIANY ROVIS G AAAGACGCCAGAGCTGTTTATGGGCTCAGCGTACCGCGCGGGGGGGG
<i>y</i> 0	YOIT+++++++
102	CGCAGGCTCTGTAGAGCAGAAGCCGCACGGCCCGGTGCATGTGTGGACAGGTGATCGCAA
 	GCGTCCGAGACATCTCGTCTTCGGCGTGCCGGGCCACGTACACCTGTCCACTAGCGTT A G S V E Q K P H G P V H V W T G D R N
108	CCAGCCCAATCGCGAAGACATGGGCACGCTCTACTCGGCGGCGTGGGACCCCGTCTTCTT
) H	ī n
114	CGCACACCACGCAACATCGACCGCATGTGGTACGTGTGGAGGAACCTTGGCGGCAAGCA
r -1 -1	GCGTGTGGTGCCGTTGTAGCTGCGTTGCACCTCCTTGGAACCGCCGTTCGT A H H G N I D R M W Y V W R N L G G K H

FIGURE 10E

CCGCAACTICACCGACCCGACTGGCTCAACGCGTCCTTCCTGTTCTATGATGAAATGC	TTGA	GCAGCTCGTCCGTGTTAAAGTAAAAGACTGCTTAGAGGCCGACGCAATGCGGTACACATA	. ()	ن	GGTCCTACATCTCTAGGGCACCGAGTTTCGTTTCGGCTGCGGTTTCTCGCGGGATGTCTT Q D V E I P W L K A K P T P K S A L Q K	GATAAAGAGCAAGGTATCGACGCTGAAGGCAACACCAAGGGGGGACGACGACTACCACAGC	TTC: K	AGAGACTACATTTCCGGTGGTGCTGGATAAGCCGGTGAGTGCAACAGTGGCTAGACCGAA	TCTCTGATGTAAAGGCCACCACGACCTATTCGGCCACTCACGTTGTCACCGATCTGGCTT
CCGCAACT	1201 GGCGTTGA R N	GCAGCTCC	CGTCGAGC C L	CCAGGATG	1321L GGTCCTAC Q D	GATAAAG	TTC: K	AGAGACT? 1441	TCTCTGA

FIGURE 10F

GGCCAGGAGGAAGGAAGGAAGAAGAAGAAGAGGAGGAGTCTTGGTGGTGGTGGAGGAAT 1501++1560 CCGGTCCTCCTCACCCTTCCTTCTTCTCCTCCACCCCCCCC
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FIGURE 10G

•					
AGGAGCG+-TCCTCGC	F K S G K G M V K V G G L R I D F S K * ATGAGCATATTGTGAAGAAAATTTGCATTTACCGCCCTATAGAATCGAAAAATTGCGT 1861+++++1920 TACTCGTATAACACTTCTTTTAAACGTAAATGGCGGATATCTTAGCTTTTTAACGCA	ATATGTCCCATTATTTTTTTTTTTTCTTCAAGCGTATTCAGAATAAGAGTTGCGTGCA 1921++++1980	AGGG V F GCAT	1981	TGATGTGAACTTTGAATTAATTATTACACTCTGAGAATAAATTAGAGAGTTTATTATGCA 2041+++++2100 ACTACACTTGAAACTTAATAATAATGTGAGACTCTTATTTAATCTCTCAAATAATACGT D V N F E L I I T L * E * I R E F I M Q

FIGURE 10H

AGTIGCTIGGTGTAATAGATATTCAACATTGTTTCCTATACATCTTTTTTGGAAGAAA ഗ

FIGURE 11A

7	C_{I}
	1+++++++
	GCTGTTGAACTCTAGCTTCACCGGTGCTTCCTCTGCATGCCTCCTCCAACGGAAAGGTC
o O	
, ,	CCGCCGCCGCCGCCTCCACGTCCCTGGCGTGACATGCCGCCAGGGCAGTAATGGTGACCG
77.	GGCGGCGGCGGAGGTGCAGGGACCGCACTGTACGGCGGTCCCGTCATTACCACTGGC R R R R L H V P G V T C R Q G S N G D R
7	CAGAGATGCCGCCCCCCAGCAGCAGTCGCCGCCGCTGCTGGATCGGCGCGCGACATGCTGTT
Α	GICTCTACGGGGGGGCTCGTCAGCGGCGCGCGACGACCTAGCCGCGCGCTGTACGACAA

241-----+----+300 CCCAAATCCTCCGGAAATGCCGCCACTGGCGTCCTGGGTTCCAAGACCGCCGCGGGCTATTA

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GGGTTTAGGAGGCCTTTACGGCGTGACCGCAGGACCCCAAGGTTCTGGCGGCGCCGATAAT

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FIGURE 11B

GCCGCCGGATCTGTCCAAGTGCTACCCTGCCACCGCACCTGCCCTCGACAACAATGCTG
CCCGCCTTACGACCCCGGCGAGACGATCTCGGAGTACAGCTTCCCTGCTACGCCCCTCCG 361++++420 GGCGGAATGCTGGGGCCGCTCTGCTAGAGCCTCATGTCGAAGGGACGATGCGGGGAGGC
GGTGCGGCGGCCGCCCATATCGTGAAGGACGATCAGGAGTATATGGACAAGTACAAGGA 421++++80 CCACGCCGCCGGCTATAGCACTTCCTGCTAGTCCTCATATACCTGTTCATGTTCCT V R R P A H I V K D D Q E Y M D K Y K E
GGCAGTGAGGATGAAGAATCTGCCGGCAGACCACCCTTGGAACTACTACCAGCAGGC 481+++++540 CCGTCACTCCTCCTACTTCTTAGACGCCGTCTGGTGGGAACCTTGATGATGGTCGTCG A V R R M K N L P A D H P W N Y Y Q Q A
GAACATCCACTGCCAGTATTGCAACTACGCCTACCACCAGCAAAATACCGACGACGTGCC 541+++++600 CTTGTAGGTGACGGTCATAACGTTGATGCGGATGGTGGTCGTTTTATGGCTGCTGCACGG

FIGURE 11C

CATCCAGGTCCACTTCAGCTGGATCTTCCTCCCATGGCACCGCTACTACCTCCACTTCTA 601++++++-660 GTAGGTCCAGGTGAAGTCGACCTAGAAGGAGGGTACCGTGGCGATGATGGAGGTGAAGAT I Q V H F S W I F L P W H R Y Y L H F Y	CGAAAGGATCCTCGGCAAGCTCATCGACGACGACCTTCACCATCCCATTCTGGAACTG 661++++720 GCTTTCCTAGGAGCCGTTCGAGTAGCTGCTGTGGAAGTGGTAGGGTAAGACCTTGAC E R I L G K L I D D D T F T I P F W N W	GGACACCCAAGGACGGATGACGTTCCCCGCCATCTTCCAGGATGCGGCATCCCCGCTGTA 721+++++++780 CCTGTGGTTCCTGCCCTACTGCAAGGGGCGGTAGAAGGTCCTACGCCGTAGGGGCGGACAT D T K D G M T F P A I F Q D A A S P L Y	CGACCCGAGACGCGACCACGTCAAGGACGGCAAGATCCTCGACCTCAAGTACGC 781++++++840 GCTGGGCTCTGCGCTGGTTGCGGTGCAGTTCCTGCCGTTCTAGGAGCTGGAGTTCATGCG D P R R D Q R H V K D G K I L D L K Y A	CTACACCGAAAACACTGCATCCGACAGCGAGATCATACGGGAGAACCTCTGCTTCATACA 841+++++++
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FIGURE 11D

GAAGACGTTCAAGCACAGCCTGTCGCTGGCGAACTGTTCATGGGGGATCCCGTGCGCGC 901+++++++	GGGGAGAAGGAGATCCAGGAGGCTAATGGGCAGATGGAAGTCATCCACAATGCGGCGCA 961++++++1020 CCCCCTCTTCCTCTAGGTCTCCGATTACCCGTCTACCTTCAGTAGGTGTTACGCCGCGT G E K E I Q E A N G Q M E V I H N A A H	CATGTGGGTCGGAGGCCGGACGGATACAAGGAAAACATGGGGGGCTTCTCCACCGCCGC 1021++++++1080 GTACACCCAGCCTCTCGGCCTGCCTATGTTCCTTTTGTACCCCCTGAAGAGGTGGCGGCG M W V G E P D G Y K E N M G D F S T A A	CCGCGATTCTGTTTTTTTCTGCCACCATTCCAATGTCGACCGCATGTGGGACATCTACCG 1081++++++1140 GGCGCTAAGACAAAAGACGGTGGTAAGGTTACAGCTGGCGTACACCCTGTAGATGGC R D S V F F C H H S N V D R M W D I Y R	CAACCTCCGCGCCAACCGCGTCGAGTTCGAAGACAACGACTGGTTGGACAGCACCTTCCT 1141+++++1200 GTTGGAGGCGCCGTTGGCGCAGCTCTAAGCTTCTGTTGCTGACCAACCTGTGGAAGGA
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FIGURE 11E

CTTCCACGACGAACGACCGTCAAAGTCAAGATGAGCGACTGCCTCAACCCGAC 1201+1260 GAAGGTGCTCTTGCTTGTCGAGCAGTTCAGTTCTACTCGCTGACGAGTTGGGCTG F H D E N E Q L V K W K M S D C L N P T CAAGCTTCGGTACACGTTCGAGCAAGTTCCCCTCCCATGGCTGGC	CTTCTGCCGTCTCTGCTTCAGGTTCCGGTGCTGCCTCGACAGCGACTGCGCGCACTTGCT K T A E T K S K A T T E L S L T R V N E ATTCGGGACGACGCCCAGGCACTCGACGCGAGCAACCCGCTGCGGGTGATCGTGGCAAG 1381++1440 TAAGCCCTGCTGCCGGGTCCGTGAGCTGCGCTCGTTGGCCCACTAGCACCCTTC F G T T A Q A L D A S N P L R V I V A R	GCCGAAGAACCGCAAGAAGAAGAAGAAGCAAGAGAAGGTGGGGGGGG
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FIGURE 11F

GTGGGACCAAGAGGCGTGACCCTCGCAGTGGCACCCCCTCAAAGGTAGTTAGAGGACGT
CACCCTGGTTCTCCGCACTGGGAGCGTCACCGTGGGGGGGG
CGACCCATAATGCGGCGACGCTCCTGTAGCTACGACTCCTGCGGCTGTTCAACCACCA L G I T P L E D I D A E D A D K L V V
GCTGGGTATTACGCCGCTGCTCGAGGACATCGATGCTGAGGACGCCGACAAGTTGGTGGT
ATCCTACTTCCCTTCGCTCCTGGCTTTTCGTCCCGGGGTTCTTCTT
TAGGATGAAGGGAAGCGACGGGACCGAAAAGCAGGGCCCCCAAGAAG
GCCACTGGAGCGGCTGATGCCGCTCAAGCGCCCGTCGATGCACTCGACCGCGT G D L A G P D Y G E F A G S Y V R L A H
CGGTGACCTCGCCGGACCGACTACGCCGAGTTCGCGGGCAGCTACGTGAGGCTGGCGCAA
CCTATAATTCCACTGGTGGTTGCTCTGTCGAGCGAAGCTGCAGATACAGCGCCAAGGAAT D I K V T T N E T A R F D V Y V A V P Y
GGATATTAAGGTGACCACCAACGAGACAGCTCGCTTCGACGTCTATGTCGCGGTTCTTTA

1001	GACAGATTCTACCGCCGCCATCTAAATGATGGCCTCGGATCACAGCTTCTCCCCGCTTAA 1001++1860	
7 0 1	GGGCGGTAGATTTACTACCGGAGCCTAGTGT	
· (GTTGGAGTGATCGATTACTGGTGCTGCTTTCTTCCTCCCTGTCGTTCTTGCTATCTTCTT	
Γ	1861	
7	GATCTGGAACGATCCTTCAATAATTAGGGCATGACAGTAGTCGTCGCCCGATCCCATATG	
1 3 Z	1921	
(TACGTGTTGGTCTCAACAGCTGTACATGTGACGTTATGTGGTGTGTGACTATATATTTTTTTT	
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0	CATC	
707	2041	

FIGURE 11G

FIGURE 12A

AATGTGGATCGGACGGTGTGGAAGAAGCTGCACGGCGACAAGCCGGAGTTCGTC 1++++++++++++++++++++	GACCAGGAGTGGCTCGAGTCTGAATTCACCTTCTACGACGAGAATGTGCGCCTGCGCAGG 61+++120 CTGGTCCTCACCGAGCTCAGACTTAAGTGGAAGATGCTGCTCTTACACGCGGACGCGTCC D Q E W L E S E F T F Y D E N V R L R R	ATCAAGGTGCGCGACGTGTTGAACATAGACAAACTCAGGTACCGGTACGAAGACATCGAC 121++++++180 TAGTTCCACGCGTGCACAACTTGTATCTGTTTGAGTCCATGCCATGCTTCTGTAGCTG I K V R D V L N I D K L R Y R Y E D I D	ATGCCATGGCTCGCTGCACGTCCCAAGCCTTCCGTTCACCCTAAGATCGCGCGCG	TTGAAGAAGCGTAATGGCGAAGGCGTACTGAGAATGCCCGGCGAAACGGATCGTTCACAA

AACTTCTTCGCATTACCGCTTCCGCATGACTCTTACGGGCCGCTTTGCCTAGCAAGTGTT

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FIGURE 12B

,	TA
.00	GAGCCATATAGCCTTGAAAACCTTCTGGAGCTCCGTCTGCTTCTACTAACGTAGACCCAC L G I S E L E D L E A D E D D C I W V
661	ACACTGGTGCCAAGAGGCGGCACGGGGGTCAACACCCGTAGACGGCGTCCGGATCGAC
	TGTGACCACGGTTCTCCGCCGTGCCCCCAGTTGTGGTGGCATCTGCCGCAGGCCTAGCTG T L V P R G G T G V N T T V D G V R I D
7.0.7	TACATGAAGTAGTGAACCGGCACGCCGCTCCTCCCCTCC
,	ATGTACTTCATCACTTGGCCGTGCGGCGAGGGGGGGGGG
. (I
8/	/81+++++++
0	AAGAATCATGTTCTTTATTTATATTAAATCAATGTGATTTGTCCAAAAAAAA
04.	TACAAGAAA

FIGURE 12C

TGCACTGTGCGTATTGCGACGGCGCGTATGACCAAATCGGCTTCCCCGATCTCGAGATCC FIGURE 13A

				CGCCGGGGGCATGCAGTTCCCGTCTATCTACACGGACCCTTCATCTCGCTATATGACA
CCATACTCGGGAACCTGCCACGAGGACCGTGCCCAGGATGAGGTTGCTCG I H N S W L F F P W H R F Y L Y S N E R GCATACTCGGGAAACTTATCGGCGACGACGGTTCGCGCTGCCTTTCTGGAACTGGGACG 121+180 CGTATGAGCCCTTTGAATAGCCGCTGCTGTCCAGGAGGCGAAGACCTTGACCTGC I L G K L I G D D T F A L P F W N D A CGCCGGGGGGCATGCAGTTCCCGTCTATCTACGGGACCTTCATCTTGACA CGCCGGGGGGCATGCAGTTCCCGTCTATCTACAGGGACCTTCATCTTGACA 181+1240	GCATACTCGGGAAACTTATCGGCGACGACGGTTCGCGCTGCCTTTCTGGAACTGGGACG 121+++++180 CGTATGAGCCCTTTGAATAGCCGCTGCTGTGCAAGCGCGGAAGACCTTGACCCTGC I L G K L I G D D T F A L P F W N W D A CGCCGGGGGGCATGCAGTTCCCGTCTATCTACACGGACCCTTCATCCTCGCTATATGACA 181+240	CGTATGAGCCCTTTGAATAGCCGCTGCTGTGCAAGCGCGGAAAGACCTTGACCCTGC I L G K L I G D D T F A L P F W N W D A CGCCGGGGGGCATGCAGTTCCCGTCTATCTACACGGACCCTTCATCCTCGCTATATGACA 181++++240	CGCCGGGGGGCATGCAGTTCCCGTCTATCTACACGGACCCTTCATCCTCGCTATATGACA	

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FIGURE 13B

TGGGGCAGAGAAGCGTGTGGTGCCGTTGTAGCTGGCGTACACCATGCACACCTCCTTGG

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TIGGCGGCAAGCACCGCAACTICACCGACCCCGACTGGCTCAACGCGTCCTTCCTGTTCT FIGURE 13C

601++
AACCGCCGTTCGTGGCGTTGAAGTGGCTGGCCGAGGAGTTGCGCAGGAAGGA
ATGATGAGAATGCGCCAGCTCCGTGTTAAAGTAAAAGACTGCTTAGAGGCCGACGCAA
661
TGCGGTACACATACCAGGATGTAGAGATCCCGTGGCTCAAAGCAAAGCCGACGCCAAAGA
ACGCCATGTGTATGGTCCTACATCTCTAGGGCACCGAGTTTCGTTTCGGCTGCGGTTTCT R Y T Y Q D V E I P W L K A K P T P K S
GCGCCCTACAGAAGATAAAGAGCAAGGTATCGACGCTGAAGGCAACACCAAGGGGGGGG
CGCGGGATGTCTTCTTCTCGTTCCATAGCTGCGACTTCCGTTGTGGTTCCCCCTGCT
CGACTACCACAGAGACTACATTTCCGGTGGTGCTGGATAAGCCGGTGAGTGCAACAG

GCTGATGGTGTCTCTGATGTAAAGGCCACCACGACCTATTCGGCCACTCACGTTGTC

FIGURE 13D

TGGCTAGACCGAAGGCCAGGAGGAGTGGGAAGGAGGAAGGA	ACCGATCTGGCTTCCGGTCCTCCTCCTTCCTTCTTCTTCTCCTCC	TGGTGGAGGGAATCGAGTTGGAGAGGACGTGTTCGTGAAGTTTGATGTGTATAAACT 961+++++1020 ACCACCTCCCTTAGCTCATCCTGCACAAGCACTTCAAACTACACATATTTGA V E G I E L E K D V F V K F D V Y I N S	CGCCGGAGCACGAGGGGTGGGGCCGGAGGCGAGTTCGCAGGGAGCTTCGTCCACG 1021++++++1080 GCGCCTCGTCCCACCCCGGCCTCCGCTCACTCAAGCGTCCTCGAAGCAGGTGC PEHEGVGF	TGCCACACACACAAGAAGGCGAAGGGGGAAGGAGATGGCCAGGATGAACACAAGGC 1081+++++-1140 ACGGTGTTCGTGTTCTTCCGCTTCCTTCCTCTACCGGTCCTACTTGTGTTCCG	TTAAGCTCGGGATAACGGACCTGCTCGAGGACATCGGCGCTGAGGACGACGAGGGGGGTGC 1141	
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	\mathbf{URE} 13 \mathbf{E} atcacgctcgtgcccaggagcggcaagggaatggtgagggttggagggctaagg	
. 7 0 7 .	AGTAGTGCGAGCACGGGTCCTCGCCGTTCCCTTACCACTTCCAACCTCCCGATTCCTAAC I T L V P R S G K G M V K V G G L R I D	
<i>F</i> -261-	ATTTCTCCAAGTGATGAGCATATTGTGAAGAGAAAATTTGCATTTACCGCCCTATAGAAT 31+++1320 TAAAGAGGTTCACTACTCGTATAACACTTCTCTTTTAAACGTAAATGGCGGGATATCTTA F S K * * A Y C E E K I C I Y R P I E S	
32.	CGAAAATTGCGTATATGTCCCATTATTGTTTTTTTTTTT	
A -381-	AGAGTTGCGTGCATGCACGCATGCAGCCATGTTGTTGTTGTTGTGGGGTATGTTT 11+++++1440 TCTCAACGCACGTACGTACGTCGGTACAACATCAGCTATACACCCCATACAAA S C V H A R M Q P C C S R Y V G Y W	
44.	GGATCAGGGATAATGAGACTTTGAATTAATTATTACACTCTGAGAATAAATTAGAG 441++++++	
.50	AGTTTATTATGCAAAAAAAA 501++ 1522 TCAAATAATACGTTTTTTTTT F T M O K K	

AGAGTACGTTTAGATTCCTCGTTGTTCTCTTACGGCTGTTCGGACGCCCGGCGTAGCTGG GCCGCGACCTACTCCTGGGCCTCGGCGGCTTTACGGTGCCACCACTGGGCTCGGCCTCA TGTTGTTTGGTCACGGACCAAATCCACATAAGTGATACCGGTGGGAGAGATTTGATCGAA CCCCAACCAATAACACCTCCACTCTCCCCGCTCCCTCTTTGCATGCTCCTTCTCACC GGGGTTGGTTATTGTGGAGGTGAGAGGGGCGAGGGAGGAACGTACGAGGAAGAGAGTGG AAAAGCTTCACCACCACCTTCCTCCCCTGTAGGGGTCCCAAACCACCCCGTCATAAGA TCTCATGCAAATCTAAGGAGCAACAAGAGAATGCCGACAAGCCTGCGGGCCGCATCGACC TTTTCGAAGTGGTGGAAGGAGAGGGGACATCCCCAGGGTTTGGTGGGGCAGTATTCT ACAACAAACCAGTGCCTGGTTTAGGTGTATTCACTATGGCCACCCTCTCTAAACTAGCTT CGGCGCTGGATGAGGACCCGGAGCCGCCCGAAATGCCACGGTGGTGACCCGAGCCGGAGT Д × Д G Ø ∝ z ပ Ø 禸 Д o o ம U 田 ഗ

FIGURE 14A

FIGURE 14B

CCGACGACCCGCGCAACTTCGTACAGCAAGCGAAAGTGCACTGTGCGTACTGCGACGGCG 541+++++600 GGCTGCTGGGCGCGTTGAAGCATGTCGTTCGCTTTCACGTGACACGCATGACGCTGCCGC
TGGCAGCTCGCCGGCGGCGGCGAGACTCGAGCTTGAACACCCGGCGGAC R R A A P I L A P D L S T C G P P A CCGACCTCCCTCCCCCCGACCGACACTTTGCTGCCCGCCATACCAATCCACCATCA 361+420 GGCTGGAGGCGGCGCGCTGTCAAACGACGGCGCTTAGGTTAGGTTAGTTA
CCGACCTCCCGCCCGACCGACCGACTGCTGCTGCCGCCATACCAATCCACCATCA 361+420 GGCTGGAGGACGCGGCTGCTGCAACGACGGCGCGTATGGTTAGGTGGTAGT D L P A S A R P T V C C P P Y Q S T I I TCGTCTTCAAGCTCCCCCCGCGATCTGCTCGCTTCGCGTCCGGCCTGCGGCCCACTTGG 421++180 AGCAGAAGTTCGAGGGGGCGCTAGACGAGCGAAGCGCAGGCCGGACGCCGGTGAACC V F K L P R S A P L R V R P A A H L V TTGACGCCGACTACCTGGCCAAGTATAAGAAGGCGGTCGAGGCCCTGCCGG 481+540 AACTGCGGCTGATGGACCGTTCATATTCTTCCGCCAGCTCGAGGCCCTGCCGG AACTGCGCCTGATGGACCGGTTCATATTCTTCCGCCAGCTCCGGGACGCCC D A D Y L A K Y K K A V E L M R A L P A
TCGTCTTCAAGCTCCCCCCGCGATCTGCTTCGCGTCCGGCCTGCGGCCCACTTGG 421++480 AGCAGAAGTTCGAGGGGGCGCTAGACGAGCCGAAGCGCCGGACGCCGGGTGAACC V F K L P R S A P L R V R P A H L V TTGACGCCGACTACCTGGCCAAGTATAAGAAGGCGGTCGAGCTCATGAGGCCCTGCCGG 481++540 AACTGCGCTGATGGACCGGTTCATATTCTTCCGCCAGCTCGAGTACTCCCGGGACGCC D A D Y L A K Y K K A V E L M R A L P A
TTGACGCCGACTACCTGGCCAAGTATAAGAAGGCGGTCGAGCTCATGAGGGCCCTGCCGG 481+++++540 AACTGCGGCTGATGGACCGGTTCATATTCTTCCGCCAGCTCGAGTACTCCCGGGACGGCC D A D Y L A K Y K K A V E L M R A L P A

FIGURE 14C

	099+		r
	+	4GA	щ
	1	AAG	ᄺ
CIC	!	GAG	ы
T.G.G.	i	ACC	Z
TCG	+	AGC	ഗ
AAC	+	TTG	Z
3ACCAAATCGGCTTCCCCGATCTCGAGATCCAGATCCACAACTCGTGGCTCTTTT	i !	CTGGTTTAGCCGAAGGGGCTAGAGCTCTAGGTCTAGGTGTTGAGCACCGAGAAG	D Q I G F P D L E I Q I H N S W L F F
ATC	1.	TAG	H
CAG	1	GIC	Ø
ATC	i	TAG	Н
GAG	<u> </u>	CIC	団
CIC	+	GAG	H
GAT	1	CTA	Ω
$\frac{1}{2}$	1	999	വ
TIC	+	AAG	ᅜ
999	1 1 1	SSS	ტ
ATC	i 	TAG	Н
CAA	 - - - -	GTT	Ŏ
	1	CTG	Ω
GTAC		ATG	\succ
ٽ ُ	601	SS	

TTCCTTGGCACCGGTTCTACCTCTACTTCAACGAGCGCATACTCGGGAAACTTATCGGTG AAGGAACCGTGGCCAAGATGAGATGAAGTTGCTCGCGTATGAGCCCTTTGAATAGCCAC ധ L G K L I Ŀ Ę. F Y L Y

ACGACACGTTCGCGCTGCCTTTCTGGAACTGGGACGCGCGGGGGGGCATGCAGTTCCCGT TGCTGTGCAAGCGCGACGGAAAGACCTTGACCCTGCGCGCCCCCCCGTACGTCAAGGGCCA N W D A TFALPFW

CTATCTACACAGACCCTTCATCCTCGCTATATGACAAGCTGCGTGATGCGAAGCACCAGC GATAGATGTGTCTGGGAAGTAGGAGCGATATACTGTTCGACGCACTACGCTTCGTGGTCG

CGCCGACTTTGATTGACCTCGACTACAATGGCACA

GCGGCTGAAACTAACTGGAGCTGATGTTACCGTGT

GACCACCCATAGATGATGGCTTCTCTCGCCTTGTCTAGTCTTCCCACCTCCACCACAACC FIGURE 15A

CTGGTGGGTATCTACTACCGAAGAGAGCGGAACAGATCAGAAGGGTGGAGGTGGTGTTGG SLALS

TTTTTGGGAATAAAAGGTTTTGTAGGAGCGTACAATTCGGTAAGGTAGCAAGTTTCAA AAAAAACCCTTATTTTCCAAAACATCCTCGCATGTTAAGCCATTCCATCGCTTCAAAGTT ഥ S S H V K P ₽

TCATGCAATGCACCCGCTGATAACAATGACAAAACCGTCAATAATTCTGATACCCCAAAG AGTACGTTACGTGGGCGACTATTGTTACTGTTTTGGCAGTTATTAAGACTATGGGGTTTC C N A P A D N N D K T V N N S CTCATACTACCCAAAACACCACTTGAAACGCAGAACGTAGACAGGAGAAACTTGCTTCTG GAGTATGATGGGTTTTGTGGTGAACTTTGCGTCTTGCATCTGTCCTCTTTGAACGAAGAC LILPKTPLETQNVDRRNLLL

GGACTCGGAGGTCTCTACGGCGCTGCCAACTTGACGACCATTCCGTCAGCCTTTGGCATT CCTGAGCCTCCAGAGATGCCGCGACGGTTGAACTGCTGGTAAGGCAGTCGGAAACCGTAA

FIGURE 15B

AGCAAAGACGCTATAAGGGGACTAGCGTGTTGTCCTCCGGTGCTTTCAACAAACA
PIAAPDNISDCVAATSNLRN
ATGGATTACGTCCTTCCAAACCCTGTGATTCGTGTTCGACCAGCTGCACAGAAAGCC 421+++++480 TACCTAATGCAGGAAGTTTGGACACTAAGCACAAGCTGGTCGACGTGTCTTTCGG
TACGTCCTTCCAAACCCTGT+

1	FIGURE 15C	
601	TACAATCAAGAACAAAGTGGTTACCCGAATTTACAACTTCAGATTCACAACTCATGGCTC	
, ,	TTCTTGTTTCACCAATGGGCTTAAATGTTGAAGTCTAAGTGTTGAG	
661	TTCTTTCCTTTCCACCGGTGGTACCTCTATTTCTACGAGAAGATATTGGGGAAGTTGATT 661+++720 AAGAAAGGAAAGGTGGCCACCATGGAGATAAAGATGCTCTTCTATAACCCCTTCAACTAA F F F F F H R W Y L Y F Y E K I L G K L I	
721	AATGATCCAACTTTCGCTCTACCTTACTGGAACTGGGATAACCCTACTGGAATGGTTATT 721+++++780 TTACTAGGTTGAAAGCGAGATGGAATGACCTTGACCCTATTGGGATGACCTTACCAATAA N D P T F A L P Y W N W D N P T G M V I	
781	4 1	
841	$O_1 O_1$	

FIGURE 15D

0.0	TGTATAGACCAGATAGCCATTAATC1G1C11CAA1G1ACAGACAGA1GG1CACCAAC1CC	
<i>y</i>	TCTGGTCTATCGGTAA D Q I A I	-
961	ACTGATACAAAACGATTCTTCGGTGGCGAATTTGTAGCTGGAAATGACCCTCTTGCGAGC	
	ATG	
7	GAGTTCAACGTAGCTGGGACCGTAGAAGCTGGGGTTCACACTGCGGCTCACCGCTGGGTG	
T 0 7	CTCAAGTIGCATCGACCCTGGCATCTTCGACCCCAAGTGTGACGCCGAGTGGCGACCCCAC EFN V A G T V E A G V H T A A H R W V	
· C	TIC	
108 108	LUBI	
1171	CCTCTCTTTTACGTCCACCATGCGAATGTCGACAGGATGTGGCAAATCTGGAAAGATATT	
r -l -l	GAA	

FIGURE 15E

GACAAGAAGACACACAAGGATCCGACCTGGCGACTAGCTAAATGCATCATACGTGTTT 1201+1200 CTGTTCTTCTGTGGTGTTCCTAGGCTGACGCTGACCGATTTACGTAGTATGCACAAA D K K T H K D P T S G D W L N A S Y V F TACGATGAGAATGAAATCTTGTACGTGTCTACAACCGAGACTGTAGCACTATAATCGG 1261+1320 ATGCTACTCTTACTTTTAGAACATGCACAGATTGGCTCTGACACTTTAATTGCC Y D E N E N L V R V Y N R D C V D I N R ATGGGATATGACTACGAAAGGTCAGCAATCCCATGGACTGTGCACATTAATTA	T - 7000	+ 1 2 0 0 A	G +1320	ບ	T -1380	P P	C +1440		C +1500	
TAGGAGGACAC TTCTTCTGTG K K T GATGAGAATG CTACTCTTAC CTACTCTTAC CCTATACGAC AAGGGGGGGGA AAGGGGGGGA TTCCCCCCGCT K G A TTCCCCCCGCT TTCCCCCCGCT TTCCCCCCGCT TTCCCCCCCGCT	ACAAGGATCCGACCTCTGGCGACTGGCTAAATGCATCATACGTGTTT	TGTTCCTAGGCTGGAGACCGCTGACCGATTTACGTAGTATGCACAAA H K D P T S G D W L N A S Y V F	AAAATCTTGTACGTGTCTACAACCGAGACTGTGTAGACATTAATCGG +	TTTTAGAACATGCACAGATGTTGGCTCTGACACTCTGTAATTAGCC E N L V R V Y N R D C V D I N R	ACGAAAGGTCAGCAATCCCATGGATCCGTAGTCGGCCGACTGCACAT	TGCTTTCCAGTCGTTAGGGTACCTAGGCATCAGCCGGCTGACGTGTA Y E R S A I P W I R S R P T A H	ACGTTGCTGCTAAGTCTGCTGGAATCGTGCAGAAGGTGGAGGATATC ++1440	TGCAACGACGATTCAGACGTCTTAGCACGTCTTCCACCTCTATAG N V A A K S A G I V Q K V E D I	AGTTAAACAAGATAGTGAAGGTTCTAGTGAAGAGGCCAGCTACAAAC	CATAAGGGCGACTTCAATTTGTTCTATCACTTCCAAGATCACTTCTCCGGTCGATGTTTG
GACAAG 1201 CTGTTC D K TACGAT Y D Y D ATGGGR ATGGGR 1321 TACCCT M G GCGAAG 1381 CGCTTC A K GTATTC	Ϋ́ς i	i <u>H</u>	TACGATGAGAATGAAAA1	ATGCTACTCTTACTTTTA Y D E N E N	ATGGGATATGACTACGAA	JZI	GCGAAGGGGGCGAACGTI	CGCTTCCCCCGCTTGCAZ	GTATTCCCGCTGAAGTT	441

FIGURE 15F

AGGACCAAGGAGGAAAGGAAATGAGCTGTTGTTCGTGAATGGAATCACGTTT +++++1560 TCCTGGTTCCTCCTTTCCTTTTACTCGACAACAAGCACTTACCTTAGTGCAAA R T K E G K E K A N E L L F V N G I T F GATGCTGAGCGGTTTCTAAAGATTGACGTGTTTGTCAACGACGTCGACGATGGAATTCAG +1620 CTACGACTCGCCAAAGATTTCTAACTGCAAACAGTTGCTGACGTCGACGTTAGTC D A E R F L K I D V F V N D V D D G I Q ACCACCGCTGCTGATAGTGAGTTTGCTGGTAGTTTCGCACAGTTGCCACATAACCATGGC +1600	TGGTGGCGACGACTATCACTCAAACGACCATCAAAGCGTGTATTGGTACCG T T A A D S E F A G S F A Q L P H N H G GACAAGATGTTTATGAGGAGTGGGGCAGCGTTCGGGATCACGGAGCTCTTGGAAGACATT 1681
GGGAAGG CCTTTC G K STTTCTA SAAGAT F L	GACGACTA A A D TGTTTATG+ ACAAATAC M F M AAGGTGAT TTCCACTA